

## Papers

### Publications:

- Katsikopoulos, K. V., Duse-Anthony, Y., Fisher, D. L. and Duffy, S. A. (accepted pending revisions). Range of travel time and risk attitude in drivers' route choice, *Human Factors*
- Katsikopoulos, K. V. and Fisher, D. L. (2001) Formal requirements of Markov state models for paired associate learning, *Journal of Mathematical Psychology*, 45, 2, 324–333
- Katsikopoulos, K. V., Fisher, D. L. and Duffy, S. A. (2001). Experimental evaluation of policies for sequencing the presentations of associations, *IEEE Transactions on Systems, Man and Cybernetics Part A: Systems and Humans*, 31, 1, 55–59
- Katsikopoulos, K. V. (2000) Optimal instructional policies based on a random-trial incremental model of learning, *IEEE Transactions on Systems, Man and Cybernetics Part A: Systems and Humans*, 30, 4, 490–494
- Katsikopoulos, K. V., Duseant-Anthony, Y., Fisher, D. L. and Duffy, S. A. (2000). The framing of drivers' route choices when travel time information is provided under varying degrees of cognitive load, *Human Factors*, 42, 3, 470–481
- Fisher, D. L., Duffy, S. A. and Katsikopoulos, K. V. (2000). Cognitive slowing among older adults: What kind and how much? In T. Perfect and E. Maylor (Eds.), *Models of Cognitive Aging*. Oxford, England: Oxford University Press (pp. 87–124)
- Katsikopoulos, K. V., Fisher, D. L. and Pullen, M. T. (1998). Paired associate learning: Age differences. In W. A. Rogers (Ed.), *Designing for an aging population: Ten years of human factors/ergonomics research*. Santa Monica, CA: Human Factors and Ergonomics Society (pp. 104–108)
- Katsikopoulos, K. V. (1998). State models and lag effects in paired associate learning, *Journal of Mathematical Psychology*, 42, 2, 473–473
- Katsikopoulos, K. V. and Fisher, D. L. (1997). Lag effects in paired associate learning: Age differences. *Proceedings of the 41<sup>st</sup> Annual Meetings of the Human Factors and Ergonomics Society*. Santa Monica, CA: Human Factors and Ergonomics Society, 1369–1369

### Other Publications

- Katsikopoulos, K. V., Fisher, D. L., and Duffy, S. E. (submitted), Spacing effects: Evidence for rehearsal-based accounts and for differential impact of aging across cognitive processes, *Psychonomic Bulletin and Review*
- Katsikopoulos, K. V., Sathayanarayana, D., Fisher, D. L., and Krishnamurty, S. E. (submitted), The difficulty of mental rotations tasks involving oblique angles for undergraduate students in technical fields, *Perception*

- Katsikopoulos, K. V., Engelbrecht, S. E. (submitted), Markov decision processes with delays and asynchronous cost collection, *IEEE Transactions on Automatic Control*
- Katsikopoulos, K. V., and Simsek, O. (submitted), Optimal doubling strategy against a sub-optimal opponent, *Journal of Applied Probability*
- Fisher, D. L., Katsikopoulos, K. V., and Wisher, R. A. (working paper), *Internet-based learning: Optimizing the selection of initial and refresher training*
- Katsikopoulos, K. V. (working paper), *Optimality and rationality of certain violations of choice principles*
- Katsikopoulos, K. V., and Simsek, O. (working paper), *The parking problem with look-ahead*
- Katsikopoulos, K. V. (working paper), *The role of problem objective in the Asian disease problem*
- Katsikopoulos, K. V. (working paper), *Choosing the fast and frugal way: Models of bounded rationality*

### Selected Presentations

- Katsikopoulos, K. V., and Fisher, D. L. (July 2001). Risk attitude reversals for random reference points: Rank-dependent or random-utility-models? Paper presented at the Mathematical Psychology Meetings, Providence, RI
- Katsikopoulos, K. V. (April 2001). Design of advanced traveler information systems: An industrial engineering approach. Invited talk at Tufts University, Department of Mechanical Engineering, Medford, MA
- Katsikopoulos, K. V. (March 2001). Support of human learning via computer learning of the spacing effect, Invited talk at Rutgers University, Department of Psychology, Newark, NJ
- Katsikopoulos, K. V. (March 2000). Framing effects in drivers' route choice and a construct for human choice research. Invited talk at the University of Illinois, Department of Mechanical and Industrial Engineering Seminar, Urbana, IL
- Katsikopoulos, K. V. (January 2000). Using computers to support human performance: Studies in transportation and visualization. Invited talk at the Georgia Institute of Technology (School of Psychology and College of Computing), Atlanta, GA
- Katsikopoulos, K. V. (March 1999). A simple, load-sensitive, probabilistic model for drivers' route choice. Invited talk at Nissan Cambridge Basic Research, Cambridge, MA
- Katsikopoulos, K. V. (January 1999). Optimal training for younger and older adults. Invited talk at the University of Connecticut, Department of Psychology Colloquium, Storrs, CT
- Katsikopoulos, K. V. (December 1998). Design of advanced traveler information systems: Safety considerations. Invited talk at the Liberty Mutual Research Center for Safety and Health, Hopkinton, MA

- Fisher, D. L., Duffy, S. A. and Katsikopoulos, K. V. (April 1998). Cognitive slowing among older adults: What kind and how much? Poster presented at the 1998 Cognitive Aging Conference, Atlanta, GA
- Engelbrecht, S. E. and Katsikopoulos, K. V. (October 1998). Planning with delayed state information. Paper presented at the 1998 American Association for Artificial Intelligence Fall Symposium Planning with Partially Observable Markov Decision Processes, Orlando, FL
- Katsikopoulos, K. V. (September 1997). Lag effects in paired associate learning: Implications for theory, modeling and training. Paper presented at the 28<sup>th</sup> European Mathematical Psychology Group Meetings, Nijmegen, Holland
- Katsikopoulos, K. V., Fisher, D. L. and Pullen, M. T. (September 1996). Paired associate learning: Age differences. Paper presented at the Human Factors and Ergonomics Society Annual Meetings, Philadelphia, PA
- Fisher, D. L. and Katsikopoulos, K. V. (April 1996). The general acquisition, decrement and training hypotheses: Can the effects of aging on the learning of paired associates be mitigated by optimizing training schedule? Poster presented at the 1996 Cognitive Aging Conference, Atlanta, GA